

CHECK LIST OF THE AUSTRALIAN CISTELIDAE.

ORDER—COLEOPTERA.

By H. J. CARTER, B.A.

Plates xviii. & xix.

Preface.

The catalogue of Australian Coleoptera, published by Masters, in 1886, enumerated fourteen genera and seventy-one species of this family, of which five genera and nineteen species have since been sunk as synonyms or shown to be superfluous. The present list contains twenty-four genera and one hundred and ninety-eight species, an increase of 71.5 % in genera and 177.5 % in species.

The following genera have been superseded:—

Atractus Lac. (nom. praeocc.). Now *Aethysius* Pasc.

Neotractus Borch. Superfluous.

Lisa Haag. = *Metistete* Pasc.

Ismarus Haag. Now *Simarus* Borch.

Allecula F. Australian species merged in *Homotrystis* Pasc.

Cistela F. Australian species merged in *Nocar* Blkb.

"In the Junk Catalogue, Borchmann followed Seidlitz in substituting the name ALLECULIDAE for CISTELIDAE on the ground that *Cistela* was used by Geoffroy (1764) in another family, and therefore *Cistela* F. (1773) was praeoccupied. Geoffroy's names, however, are not accepted, hence *Cistela* F. is a valid genus, with type *sulphurea* Latr. (1810), and the family name is therefore correctly *Cistelidae*." (1).

The family is clearly separated from the TENEBRIONIDAE by the pectinate claws and the presence of lamellae on the tarsi, of which there are, in the Australian species, two on each of the four anterior and a single lamella on the penultimate segment of the post tarsi. The anterior coxal cavities are, in general, closed behind.

In this family the males, in all species examined, display well-developed genital forceps, somewhat similar to, though less prominent than those in the Phalidurine weevils (2).

These are especially notable in the larger forms of *Hybrenia*, *Homotrystis* and *Metistete*, and in the last genus were noted by Blackburn (3). The females frequently display an extended ovipositor.

The genera show few distinct characters that allow of simple clear cut tabulation; the Darwinian test, a combination of small differences, forming the rule for generic distinction. The species, however, are generally well differentiated by sculpture and frequently by sexual characters, seen in the form of teeth or excisions, associated with the tibiae or femora, besides differences of antennal structure.

An asterisk before a name denotes a species unknown to the author.

The genera may be arranged in two distinct groups:—

Group I. Having simple mandibles, acutely pointed, the head produced into a nozzle.

Group II. Having bifid mandibles, the head little produced.

These may be tabulated as follows:—

(1). Note reprinted from Tr. Roy. Soc. S.A., 1920, p. 198.

(2). Vide Roy. Soc. Vict., 1915, p. 54 and pl. vi.

(3). Linn. Soc. N.S.W., 1888, p. 1438,

Group I.

- | | |
|--|---------------------|
| 1. Prothorax oblong or cylindric. | 2. |
| Prothorax transverse, its sides more or less rounded. . . | 5. |
| 2. Antennal segment 11 nearly or quite as long as 10. . . . | 3. |
| Antennal segment 11 much shorter than 10. | <i>Anaro.</i> |
| 3. Prothorax cylindric, intercoxal process truncate or rounded. | <i>Aethyssius.</i> |
| Prothorax subdepressed, intercoxal process triangular. . . | 4. |
| 4. Surface metallic (except in <i>A. rufovittis</i>), ♂ with post tibiae excised and flattened. | <i>Alcmeonis.</i> |
| Surface non-metallic, ♂ with post tibiae, and sometimes femora widened. | <i>Chromomoea.</i> |
| 5. Prothorax widened at middle. | <i>Hemicistela.</i> |
| Prothorax widest behind middle. | 6. |
| 6. Antennae short. | 7. |
| Antennae long. | <i>Tanychilus.</i> |
| 7. Elytra metallic, irregularly punctate. | <i>Eucistela.</i> |
| Elytra non-metallic, striate-punctate. | 8. |
| 8. Eyes large and approximate. | <i>Apellatus.</i> |
| Eyes smaller and distant. | 9. |
| 9. Elytra not wider than base of prothorax, procoxae separated by a lamina. | <i>Neocistela.</i> |
| Elytra wider than base of prothorax, procoxae contiguous. . | <i>Atoichus.</i> |

Group II.

- | | |
|---|------------------------|
| 1. With wings fully adapted for flight. | 2. |
| Without wings fully adapted for flight—at least in the ♀. . | 10. |
| 2. Mandibles grooved, scarcely bifid, at apex. | <i>Dimorphochilus.</i> |
| Mandibles distinctly bifid at apex. | 3. |
| 3. Hind femora extending well beyond elytra when at right angles to suture. | 4. |
| Hind femora not or scarcely extending beyond elytra when at right angles to suture. | 8. |
| 4. Prothorax widest behind middle. | 5. |
| Prothorax widest in front of middle. | 7. |
| 5. Antennal segments more or less elongate and slender. . . | 6. |
| Antennal segments short and widened towards apex. . . . | <i>Nypsius.</i> |
| 6. Elytra striate-punctate. | 7. |
| Elytra striate only—at least on 3 sutural striae. . . . | <i>Barycistela.</i> |
| 7. Prothorax very short and transverse. | <i>Ommatophorus.</i> |
| Prothorax subcordate | <i>Iophon.</i> |
| 8. Form widely ovate. | <i>Nocar.</i> |
| Form oblong ovate. | 9. |
| 9. Surface convex, antennae very short, widened towards apex. . | <i>Taxes.</i> |
| Surface subdepressed, antennae longer, scarcely widened towards apex. | <i>Scaletomerus.</i> |
| 10. Epipleurae wide (Facies of <i>Otiorrhyncus</i>). | <i>Simarus.</i> |
| Epipleurae narrow. | 11. |
| 11. Prothorax more or less ovate, elytra striate-punctate. . . | 12. |
| Prothorax cordate, elytra tuberculate. | <i>Notocistela.</i> |
| 12. Epipleurae separated from elytra by carina. | <i>Metistete.</i> |
| Epipleurae and elytra subcontinuous without separating carina. . . | <i>Melaps.</i> |

CHECK LIST OF THE FAMILY CISTELIDÆ.

AETHYSSIUS Pasc., Jour. Ent., 1863, 45.

atractus Lac., Gen. Cat., 1859, 457.*neoatractus* Borchm., Deutsche. Ent. Zeitschr., 1909, 713.

1. *atriceps* Cart., Roy. Soc. Vic., 1915, 56. Q.
2. *cyaneus* Macl., Ent. Soc. N.S.W., 1872, 299. Q.
3. *eros* Pasc., Ann. Mag. Nat. Hist., 1871, 357, pl. 2, fig. 14. Q.
Blue Mountains, N.S.W.
4. *flavipes* Macl., Linn. Soc. N.S.W., 1887, 313. Q.
5. *ruficollis* Macl., Ent. Soc. N.S.W., 1872, 299. Q.
6. *rugosulus* Mac., l.c., 300. Q.
7. *virescens* Boisd., Voy. Astrol., 1835, 284. N.S.W.
8. *viridis* Boisd., l.c., 283. Q., N.S.W., V., S.A.
var. *columbinus* Boisd., l.c., 284.
var. *rubriventris* Cart., Roy. Soc. Vic., 1915, 55.
9. *vitticollis* Macl., Ent. Soc. N.S.W., 1872, 300. Q.

ALCMEONIS Bates, Trans. Ent. Soc. Lond., 1868, 270.

10. *excisipes* Cart., Roy. Soc. Vic., 1915, 58. N.S.W., Dorrigo.
11. *paradoxus* Cart., l.c. N.S.W.
12. *pulchra* Bates, Trans. Ent. Soc. Lond., 1868, 271. Vic., S.A.
13. *punctulaticollis* Blkb., Roy. Soc. S.A., 1893, 133. Vic.
14. *rufovittis* Cart., Linn. Soc. N.S.W., 1928, 287, pl. 2, fig. 8. Vic.

CHROMOMOEAE Pasc., Jour. Ent., 1866, 490.

Lepturidea Fauv., Rev. d'Ent., 1905, 225.*Licymnius* Bates, Tr. Ent. Soc. Lond., 1868, 271.

15. *deplanchei* Fauv., Bull. Norm., 1862, 150, pl. 1, fig. 4. . . . N.S.W., V.
rufipennis Blkb., Roy. Soc. S.A., 1891, 316.
16. *eleanora* Cart., Linn. Soc. N.S.W., 1925, 243. . . . Barrington, N.S.W.
17. *fastigiata* Germ. (Allecule), Linn. Ent., 1848, 202. V., S.A., N.S.W., Q.
foveicollis Bates (Licymnius), Tr. Ent. Soc. Lond., 1868, 272.
18. *fusca* Cart., Roy. Soc. Vict., 1915, 64. N.S.W., Q.
19. *gracillima* Cart., Roy. Soc. S.A., 1920, 199. N.Q.
20. *maculicornis* Blkb., l.c., 1891, 315. Vic.
21. *major* Cart., Linn. Soc. N.S.W., 1928, 288. N.S.W., Vic.
22. *mastersi* Macl., Ent. Soc. N.S.W., 1872, 300. N.S.W., Q., V.
23. *metallica* Cart., Linn. Soc. N.S.W., 1930, 187. N.Q.
24. *nigriceps* Champ., Trans. Ent. Soc. Lond., 1895, 215. W.A. (1).
25. *occidentalis* Blkb. (Anaxo), Roy. Soc. S.A., 1891, 311. W.A.
26. *ochracea* Cart., Roy. Soc. Vic., 1915, 55. N.S.W., Q.
27. *oculata* Cart., Linn. Soc. N.S.W., 1925, 243. S.Q.
28. *opacicollis* Cart., Roy. Soc. Vic., 1915, 65. Sydney, N.S.W.
29. *ornata* Cart., l.c., 63. N.Q.
30. *pallida* Bates, Trans. Ent. Soc. Lond., 1868, 319. N.S.W.
31. *pascoei* Bates, l.c., 317. N.S.W., Q.
vittata Bates, l.c., 318.
32. *picea* Macl., Ent. Soc. N.S.W., 1872, 300. Q.
33. *picta* Pasc., Jour. Ent., 1866, 491. N.S.W., Q.
34. *puncticeps* Blkb. (Anaxo), Roy. Soc. S.A., 1891, 311. N.S.W., Vic.
35. *rufescens* Bates, Trans. Ent. Soc. Lond., 1868, 320. N.S.W.

(1). *nigriceps* Champ., locality erroneously published as Hobart, Tasmania; corrected by author in letter to me. H.J.C.

36. *strigicollis* Fairm. (Lycymnius), Petites Nouv. Ent., 1879, 167. Peak Downs, Q.
 Journ. Mus. Godeff., 1879, 110.
 (? *Aethysius vitticollis* Macl.)
37. *suturalis* Cart., Linn. Soc. N.S.W., 1930, 187. Dorrigo, N.S.W.
38. *tibialis* Cart., Linn. Soc. N.S.W., 1921, 321. N.Q.
39. *unicolor* Bates, Trans. Ent. Soc. Lond., 1868, 320. N.S.W., Vic., S.A.
aereus Blkb. (Anaxo), Roy. Soc. S.A., 1891, 308.
 var. *sydneyanus* Blkb. (Anaxo), l.c., 1893, 134.
 var. *lindensis* Blkb. (Anaxo), l.c., 1891, 309.
 ? var. *affinis* Blkb. (Anaxo), l.c., 1891, 309.
40. *varicornis* Cart., Linn. Soc. N.S.W., 1926, 514. N.Q.
41. *violacea* Cart., l.c., 1922, 80. Barrington, N.S.W.
42. *vittipennis* Macl. (Atractus), l.c., 1887, 313. Q.

ANAXO Bates, Trans. Ent. Soc. Lond., 1868, 272.

43. *ater* Blkb., Roy. Soc. S.A., 1891, 310. Vic.
44. *brevicornis* Bates, Trans. Ent. Soc. Lond., 1868, 273. S.A., V.
45. *cylindricus* Germ., Linn. Ent., 1848, 202. S.A., V.
 var. *obscurus* Blkb., Roy. Soc. S.A., 1891, 309.
46. *cylindricollis* Cart., Linn. Soc. N.S.W., 1927, 233. W.A.
47. *dentipes* Cart., Roy. Soc. S.A., 1920, 200. W.A.
48. *fuscoviolaceus* Fairm., Petit. Nouv. Ent., 1879, 167. Q.
49. *sparsus* Blkb., Roy. Soc. S.A., 1891, 310. Vic.
50. *strongylioides* Cart., l.c., 1920, 201. Q.

HEMICISTELA Blkb., Roy. Soc. S.A., 1891, 331.

51. *discoïdalis* Blkb., l.c., 332, pl. 1, fig. 1. V., N.S.W., Q.
52. *testacea* Cart., l.c., 1920, 202. W.A.

APELLATUS Pasc., Jour. Ent., 1863, 45.

euomma Boh., Res. Eug., 1858, 101.

53. *amoenus* Pasc., Jour. Ent., 1866, 491, pl. 2, fig. 9. N.S.W., V., S.A.,
lateralis Pasc., l.c., 45.
54. *apicalis* Blkb., Linn. Soc. N.S.W., 1888, 1440. W.A.
55. *concolor* Cart., Roy. Soc. Vic., 1915, 70. Brisbane, Q.
56. *lateralis* Boh., Res. Ent., 1858, 101. Q., N.S.W., V., S.A.
palpalis Macl., Ent. Soc. N.S.W., 1872, 298.
mastersi Macl., l.c., 299.
57. *lineatus* Cart., Roy. Soc. Vic., 1915, 70. W.A.
58. *nigricornis* Blkb., l.c., 1891, 315. Vic.
59. *nigripes* Cart., l.c., 1915, 71. W.A.
60. *nodicornis* Blkb., l.c., 1891, 314. Vic.
61. *plebejus* Cart., l.c., 1915, 69. S.A.
62. *stmpler* Cart., l.c., 68. N.S.W. Q.
63. *tasmanicus* Champ., Trans. Ent. Soc. Lond., 1895, 215. T.

EUCISTELA Cart., Linn. Soc. N.S.W., 1922, 79.

64. *cyanea* Cart., l.c., 80, pi. 1, fig. 2. N.Q.

NEOCISTELA Borchm., Deutsche Ent. Zeitschr., 1909, 713.

Pseudocistela Blkb., Roy. Soc. S.A., 1891, 316.
 (nom. praeocc.)

65. *ovalis* Blkb., l.c., 317. N.S.W., Vic.

ATOICHUS Cart., Roy. Soc. Vic., 1915, 72.

66. *bicolor* Blkb. (Licymnius), l.c., 1893, 133. S.A., V., N.S.W.
 67. *crassicornis* Cart., l.c., 1915, 74. Brisbane, Q.
 68. *dimidiatus* Cart., Linn. Soc. N.S.W., 1924, 544. Bribie Is., Q.
 69. *flavipes* Cart., l.c., 543. Bribie Is., Q.
 70. *flavus* Cart., Roy. Soc. Vic., 1915, 73. Vic.
 71. *tasmanicus* Cart., l.c., 72. T.

TANYCHILUS Newm., Ent. Mag., 1838, 487.

72. *aeratus* Cart., Linn. Soc. N.S.W., 1926, 515. Tamb. Mt., Q.
 73. *dubius* Newm., Ent. Mag., 1838, 488. N.S.W., Vic.
 var. *splendens* Bless., Hor. Ross., 1861, 111.
 74. *minor* Cart., Roy. Soc. Vic., 1915, 75. Sydney, N.S.W.
 75. *opaeus* Cart., Linn. Soc. N.S.W., 1917, 715. N.T.
 76. *pulcher* Cart., Roy. Soc. Vic., 1915, 75. N.T.
 77. *ruber* Cart., l.c., 76. N.S.W., S.Q.
 78. *striatus* Newm., Ent. Mag., 1838, 487. V., N.S.W., Q.

Two species also from New Zealand, *T. metallicus* White, and *T. sophorae* Brown.

DIMORPHOCHILUS Borchm., Faun. Sud. West. Aust., 1908, 352.

79. *diversicollis* Borchm., l.c., 354. W.A.
 ? var. *apicalis* Borchm., l.c., 353.
 80. *gouldi* Hope (Allecula), Proc. Ent. Soc. Lond., 1842, 80. N.T.
 81. *pascoei* MacL. (Metistete), Ent. Soc. N.S.W., 1872, 299, pl. 1, fig. 6. Q.
 82. *sobrinus* Borchm., Faun. Sud. West. Aust., 1908, 356. Dirk Hartog Is.

HOMOTRYSIS Pasc., Jour. Ent., 1866, 489.

83. *aenescens* Cart., Linn. Soc. N.S.W., 1921, 322. Stanthorpe, Q.
 84. *aerea* Cart., l.c. Macleay R., N.S.W.
 85. *arida* Blkb., Roy. Soc. S.A., 1895, 53. Central A.; also Bogan R., N.S.W.
 siliens Blkb., l.c.

callabonensis Blkb., l.c.

86. *bicolor* Champ., Trans. Ent. Soc. Lond., 1895, 217. T.
 87. *canescens* Hope, Proc. Ent. Soc. Lond., 1842, 80, pl. 2, fig. 11.
 Port Essington, N.T., & Tennant's Cr.
 maculata Haag., Jour. Mus. Godeffr., 1879, 136.

88. *carbonaria* Germ., Linn. Ent., 1842, 202. V., S.A.
 tristis Germ., l.c.

89. *cisteloides* Newm., Ent. Mon. Mag., 1838, 488. N.S.W., V., S.A.
 javeicollis Hope (Allecula), Proc. Ent. Soc. Lond., 1842, 80.
 fuscipennis Bless., Hor. Soc. Ent. Ross., 1861, 112.

- 90.* *costata* Haag., Verh. Ver. Hamb., 1878, 105. Q.
 Jour. Mus. Godeffr., 1879, 137.

91. *curticornis* Haag., l.c., 105. Q.
 l.c., 136.

- 92.* *cylindricollis* Boisd., Voy. Astrol., 1832, 283. A.

93. *debilicornis* Haag., Verh. Ver. Hamb., 1878, 105. Q.
 Jour. Mus. Godeffr., 1879, 136.

94. *doddi* Cart., Roy. Soc. S.A., 1920, 205. W.A.

95. *flavicornis* MacL., Linn. Soc. N.S.W., 1887, 316. Q.
 macleayi Borchm., Junk. Cat., 1910, 11.

96. *fusca* Blkb., Roy. Soc. S.A., 1891, 326. S.A.

97. *kershawi* Cart., l.c., 1920, 204. Eucla, W.A.

98. *laticollis* Boh. (Allecula), Res. Eug., 1858, 100. N.S.W., V., S.A.

99. *limbata* Blkb., Roy. Soc. S.A., 1891, 323. N.S.W., V.
 100. *luctuosa* Champ., Trans. Ent. Soc. Lond., 1895, 216. T.
 101.* *lugubris* Blkb., Roy. Soc. S.A., 1891, 322. Vic.
 102. *mastersi* Macl. (Allecula), Ent. Soc. N.S.W., 1872, 302. Q.
 103. *nigricans* Hope (Allecula), Proc. Ent. Soc. Lond., 1842, 80. N.T.
 also Roy. Soc. S.A., 1920, 203.
 104. *obscura* Borchm., Faun. Sud. West. Aus., 1908, 51. W.A.
 105. *ornata* Cart., Roy. Soc. Vic., 1915, 84. N.Q.
 106. *pallipes* Cart., l.c., 1920, 204. N.Q.
 107. *pascoei* Macl. (Allecula), Ent. Soc. N.S.W., 1872, 302. Q., N.S.W., V.
 108. *planicollis* Macl. (Allecula), l.c., 303. Q., N.S.W., V.
 109. *post-tibialis* Cart., Roy. Soc. S.A., 1920, 206. W.A., V.
 110. *regularis* Macl., Ent. Soc. N.S.W., 1872, 301. Q., N.S.W., S.A.
 111.* *rotundicollis* Casteln. (Allecula), Hist. Nat., 1840, 243. A.
 112. *rubicunda* Cart., Roy. Soc. Vic., 1915, 85. N.Q.
 113. *rufa* Blkb., l.c., 1891, 324. S.A.
 114. *ruficornis* Macl., Ent. Soc. N.S.W., 1872, 301. Q.
 115. *rufipes* F. (Helops), Syst. Ent., 1775, 258. N.S.W., Q.
 angusticollis Boh. (Allecula), Res. Eug., 1858, 100.
 ? *australis* Boisd. (Allecula), Voy. Astrol., 1835, 282.
 116. *rufipilis* Cart., Linn. Soc. N.S.W., 1928, 289. N.Q.
 117. *rufo-coerulea* Cart., Roy. Soc. S.A., 1920, 206. N.Q.
 118. *rufulicornis* Borchm., Junk. Cat., 1910, 18. Q.
 ruficornis Blkb., Roy. Soc. S.A., 1891, 322.
 119.* *scabrosa* Champ., Trans. Ent. Soc. Lond., 1895, 218. W.A.
 120. *scutellaris* Cart., Roy. Soc. S.A., 1920, 207. Q., N.S.W.
 121. *subgeminatus* Macl., Ent. Soc. N.S.W., 1872, 301. Q.
 122. *tenebrioides* Blkb., Roy. Soc. S.A., 1891, 325. N.S.W., Q., S.A.
 123. *torpedo* Cart., Linn. Soc. N.S.W., 1922, 81. S.Q.
 124. *variolora* Cart., Roy. Soc. S.A., 1920, 208. Scone, N.S.W.
- HYBRENIA* Pasc., Jour. Ent., 1866, 489.
125. *angustata* Macl., Linn. Soc. N.S.W., 1887, 315. Q.
 126. *angusticollis* Cart., l.c., 1928, 289. Townsville, Q.
 127. *clermontia* Cart., l.c., 1930, 188. Clermont, Q.
 128. *dentipes* Cart., l.c., 1929, 76. N.Q.
 129. *elongata* Macl. (Allecula), Ent. Soc. N.S.W., 1872, 301. N.S.W., Q.
 130. *femorata* Cart., Roy. Soc. Vic., 1915, 89. N.Q.
 131. *grandis* Borch., Faun. S.W. Aust., 1908, 349. N.S.W., V. (? W.A.).
 132. *horni* Cart., Ent. Mitteil., 1928, 138. Q.
 133. *ilidgei* Cart., Linn. Soc. N.S.W., 1927, 233. Nat. Park, Q.
 134. *laticollis* Macl., l.c., 1887, 314, pl. 2, fig. 13. Q.
 135. *nitida* Blkb. (Homotrysis), Roy. Soc. S.A., 1891, 326. N.Q., N.T.
 136. *nitidior* Cart., Roy. Soc. Vic., 1915, 90. N.S.W., S.Q.
 137. *occidentalis* Cart., Roy. Soc. S.A., 1920, 209. W.A.
 138. *pallida* Cart., Roy. Soc. Vic., 1915, 89. C. York, N.Q.
 139. *pilosa* Cart., Roy. Soc. S.A., 1920, 210. W.A.
 140. *pinelioides* Hope (Allecula), Ent. Soc. Lond., 1842, 79. N.S.W., V., N.T.
 princeps Blkb., Roy. Soc. S.A., 1891, 325.
 141. *planata* Cart., Roy. Soc. Vic., 1915, 88. N.S.W., V., S.A.
 142. *rugicollis* Cart., l.c., 87. N.S.W.
 143. *sublaevis* Macl., Linn. Soc. N.S.W., 1887, 315. Q.
 144. *substriata* Cart., l.c., 1926, 515. Q.
 145. *subsulcata* Macl., Ent. Soc. N.S.W., 1872, 302. N.S.W., Q.
 146. *tibialis* Cart., Linn. Soc. N.S.W., 1929, 77. N.Q.
 147. *torrida* Cart., Roy. Soc. S.A., 1920, 210. N.T.

148. *vittata* Pasc., Jour. Ent., 1866, 490. Q., N.T.
insularis Pasc., l.c.
subvittata Macl., Linn. Soc. N.S.W., 1887, 314.
var. *concolor* Cart., Roy. Soc. Vic., 1915, 87.
149. *yeppoonensis* Cart., Linn. Soc. N.S.W., 1928, 289. Q.

NYPSIUS Champ., Ent. Soc. Lond., 1895, 219.

150. *aeneopiceus* Champ., l.c., 219. T. (also Alpine, N.S.W., V.)
151. *foveatus* Champ., l.c., 220. T. (also Alpine, N.S.W., V.)

OMMATOPHORUS Macl., Ent. Soc. N.S.W., 1872, 304.

152. *atripes* Cart., Roy. Soc. Vic., 1915, 92, pl. 2, fig. 12. N.S.W., Q.
var. *bicolor* Cart., Linn. Soc. N.S.W., 1926, 516.
153. *boops* Cart., l.c., 1930, 188. N.Q.
154. *illidgei* Cart., l.c., 1926, 516. Q.
155. *mastersi* Macl., Ent. Soc. N.S.W., 1872, 305. Q.
? *rugulosa* Boisd., Voy. Astrol., 1835, 282.

IOPHON Champ., Ent. Soc. Lond., 1895, 224.

156. *myrmecophilus* Champ., l.c., 225. N.T.

BARYCISTELA Blkb., Roy. Soc. S.A., 1891, 327.

157. *robusta* Blkb., l.c., 328. V., N.S.W., Q.

NOCAR Blkb., Roy. Soc. S.A., 1891, 328.

158. *australicus* Blkb. (Cistela), Linn. Soc. N.S.W., 1888, 1441, pl. 1, fig. 7.
. Q., N.T.
159. *convexus* Macl., Ent. Soc. N.S.W., 1872, 303. Q.
160. *depressiusculus* Macl., l.c. N.S.W., V., S.A., Q., T.
ovatus Macl., l.c.
debilis Blkb., Roy. Soc. S.A., 1891, 329.
var. *latus* Blkb. l.c.

161. *rugosus* Cart., Roy. Soc. Vic., 1915, 93. Q.
162. *securigerus* W. S. Macl. (Cistela), King's Surv. Aust., 1827, 443. N.W.A.
163. *simplex* Blkb., Roy. Soc. S.A., 1891, 330. S.A.

TAXES Champ., Ent. Soc. Lond., 1895, 226.

164. *alphitobioides* Champ., l.c., 227. N.T.
165. *depressus* Champ., l.c., 226. W.A.
166. *subfasciatus* Cart. (Nocar), Roy. Soc. S.A., 1920, 211. N.W.A.

SCALETOMERUS Blkb., Roy. Soc. S.A., 1891, 330.

Otys Champ., Ent. Soc. Lond., 1895, 221.

167. *armatus* Champ., l.c., 223. N.W.A.
168. *bicolor* Cart., Roy. Soc. Vic., 1915, 95. N.W.A.
169. *pallens* Champ., Ent. Soc. Lond., 1895, 223. W.A.
170. *politus* Macl. (Cistela), Ent. Soc. N.S.W., 1872, 304. Q., N.S.W., V., S.A.
harpaloides Blkb., Roy. Soc. S.A., 1891, 330.
171. *proximus* Blkb., l.c., 331. S.A., W.A.
harpalinus Champ., Ent. Soc. Lond., 1895, 222.

SIMARUS Borch., Deuts. Ent. Zeit., 1909, 713.

Ismarus Haag., Verh. Ver. Hamb., 1878, 104.

172. *carinatus* Haag., Jour. Mus. Godeff., 1879, 135, pl. 1, fig. 3. S.A.
173. *elongatus* Cart., Roy. Soc. Vic., 1915, 95. W.A.
174. *godeffroyi* Haag., Verh. Ver. Hamb., 1878, 104. Q.
Jour. Mus. Godeff., 1879, 134.

- METISTETE* Pasc., Jour. Ent., 1866, 489.
Lisa Haag., Jour. Mus. Godeff., 1879, 134.
175. *armata* Cart., Roy. Soc. Vic., 1915, 97. W.A.
 176. *clarki* Cart., Roy. Soc. S.A., 1920, 212. W.A.
 177. *costatipennis* Champ., Ent. Soc. Lond., 1895, 221. N.W.A.
 178. *ebenina* Cart., Roy. Soc. Vic., 1915, 98. S.A., W.A.
 179. *gibbicollis* Newm., Ent. Mag., 1838, 488. N.S.W., V., S.A.
 melancholica Hope, Ent. Soc. Lond., 1842, 79.
 180. *incognita* Blkb., Horn Exp., 1896, 280. C.A.
 181. *lindi* Blkb., Linn. Soc. N.S.W., 1888, 1438. S.A.
 182. *omophloides* Hope, Ent. Soc. Lond., 1842, 80, pl. 1, fig. 5. . . S.A., V.
 singularis Haag. (*Lisa*), Jour. Mus. Godeff., 1879, 135.
 183. *protibialis* Cart., Roy. Soc. S.A., 1920, 213. S.A., W.A.
 184. *punctipennis* Macl. (*Allecula*), Ent. Soc. N.S.W., 1872, 302. . . . Q.
 185. *rubicunda* Cart., Roy. Soc. S.A., 1920, 212. N.T.
 186. *subopaca* Cart., Linn. Soc. N.S.W., 1922, 81. N.Q.
 187. *vicina* Cart., Roy. Soc. S.A., 1920, 214. Q.
- MELAPS* Cart., Linn. Soc. N.S.W., 1908, 409.
 ? *Oocistela* Borchm., Faun. S.W. Aust., 1908, 356.
188. *cisteloides* Cart., Linn. Soc. N.S.W., 1908, 409. Kosciusko, N.S.W.
 189. *convexus* Borchm. (*Oocistela*), Faun. S.W. Aust., 1908, 356. . . W.A.
 190. *dentipes* Cart., Roy. Soc. S.A., 1920, 214. S.A.
 191. *glaber* Cart., l.c., 216. S.A.
 192. *pilosus* Cart., Roy. Soc. Vic., 1915, 101. S.A., W.A.
 193. *punctatus* Cart., l.c., 100. Blue Mts., N.S.W.
 194. *tibialis* Cart., Roy. Soc. S.A., 1920, 216. W.A.
 195. *victoriae* Cart., Roy. Soc. Vic., 1915, 99. Alps, Vic.
- NOTOCISTELA* Cart., Roy. Soc. Vic., 1915, 102.
196. *dispar* Cart., Linn. Soc. N.S.W., 1922, 82. Ooldea, S.A.
 197. *pustulata* Cart., Roy. Soc. Vic., 1915, 103. W.A., C.A.
 198. *tibialis* Cart., l.c., 102, pl. 2, fig. 10. W.A.

EXPLANATION OF PLATE XVIII.

- Figure 1. *Hemicistela discoidalis* Blkb.
 „ 2. *Eucistela cyanea* Cart.
 „ 3. *Simarus carinatus* Hamp.
 „ 4. *Chromomoea deplanchei* Fvl.
 „ 5. *Metistete omophloides* Hope.
 „ 6. *Dimorphochilus pascoei* Macl.
 „ 7. *Nocar australicus* Blackb.

PLATE XIX.

- Figure 8. *Alcmeonis rufo-vittatus* Cart.
 „ 9. *Apellatus amoenus* Pasc. ♂
 „ 10. *Notocistela tibialis* Cart. ♂.
 „ 11. *Homotrysis canescens* Hope. ♀.
 „ 12. *Ommatophorus atripes* Cart.
 „ 13. *Hybrenia laticollis* Macl.
 „ 14. *Acthyssius eros* Pasc. ♂.